



PATENT / DOCKET NO. 31988.8  
CUSTOMER NO. 000027683

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#16

Applicant: Davison §  
Assignee: Amdocs Software Systems Limited §  
Serial No.: 09/550,451 §  
Filed: April 17, 2000 §  
For: Method and Apparatus for Complex §  
Database Structure §

Atty. Docket No.: 31988.8

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Technology Center 2100

REVOCATION/NEW POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST  
INCLUDING CERTIFICATION FOR TAKING ACTION BY ASSIGNEE UNDER 37 CFR 3.73(b)

Commissioner For Patents  
Washington, D.C. 20231

Dear Sir:

The above-identified assignee hereby revokes all powers of attorney previously given and hereby appoints the following attorneys to prosecute the above-identified application and to transact all business in the United States Patent and Trademark Office in connection therewith:

David L. McCombs (Reg. No. 32,271); Jeffrey M. Becker (Reg. No. 35,442); James R. Bell (Reg. No. 26,528); Timothy Bliss (Reg. No. 50,925); Randall C. Brown (Reg. No. 31,213); Randall E. Colson (Reg. No. 40,566); Michael A. Davis, Jr. (Reg. No. 35,488); Andrew S. Ehmke (Reg. No. P-50,271); Priscilla Ferguson (Reg. No. 42,531); William E. Hickman (Reg. No. 46,771); Rita M. Irani (Reg. No. 31,028); Warren B. Kice (Reg. No. 22,732); J. Andrew Lowes (Reg. No. 40,706); Todd Mattingly (Reg. No. 40,298); John Montgomery (Reg. No. 31,124); Julie M. Nickols (Reg. No. 50,826); Gloria Norberg (Reg. No. 36,706); and David M. O'Dell (Reg. No. 42,044); Richard V. Wells (Reg. No. 53,757)

Please address all correspondence and telephone calls regarding this application to:

David L. McCombs  
Attorney for Applicants  
Haynes and Boone, LLP  
901 Main Street, Suite 3100  
Dallas, TX 75202-3789  
[214] 651-5533 Telephone  
[972] 680-7551 Facsimile



PATENT / DOCKET NO. 31988.8  
CUSTOMER NO. 000027683

The undersigned representative of the above-identified assignee certifies that the above-identified assignee is the assignee of the entire right, title and interest in the above-identified patent application by virtue of a chain of title from the inventors of the above-identified patent application to the above-identified assignee as shown below:

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From: Dan Davison  
Recorded: July 24, 2000

To: Clarify, Inc.  
Reel: 010997 Frame: 0134

From: Clarify, Inc. To: Nortel Networks, Inc.  
*Copy of Merger Document submitted to United States Patent and Trademark Office for recordation attached.*

From: Nortel Networks, Inc. To: Amdocs Software Systems Limited  
*Copy of Assignment Document submitted to United States Patent and Trademark Office for recordation attached.*

The undersigned has reviewed all the documents in the chain of title of the above-identified patent application and, to the best of the undersigned's knowledge and belief, title is in the above-identified assignee. The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the above-identified assignee.

The undersigned hereby declares that all statements made herein of the undersigned's own knowledge are true; and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Executed the 29 day of August, 2003.

AMDOCS SOFTWARE SYSTEMS LIMITED

By: [Signature]  
Name: BURT PODBERE  
Title: GENERAL MANAGER

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner For Patents, Washington, D.C. 20231

on 8-29-03  
[Signature]  
D1149025.1



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

OCTOBER 03, 2000

LIMBACH & LIMBACK L.L.P.  
RONALD L. YIN  
2001 FERRY BUILDING  
SAN FRANCISCO, CA 94111

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OCT 10 2000

Limbach & Limbach



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UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/24/2000

REEL/FRAME: 010997/0134  
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

DAVISON, DAN

DOC DATE: 07/18/2000

ASSIGNEE:

CLARIFY, INC.  
2560 ORCHARD PARKWAY  
SAN JOSE, CALIFORNIA 95131

SERIAL NUMBER: 09550451  
PATENT NUMBER:

FILING DATE: 04/17/2000  
ISSUE DATE:

TONYA LEE, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

08-17-2000

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

R



101437025

To the Commissioner of Patents and Trademarks.

Documents or copy thereof.

1. Name of conveying party(ies):

Dan Davison

Additional name(s) of conveying party(ies) attached?

☐ Yes

☒ No

3. Nature of Conveyance:

☒

Assignment

☐

Merger

☐

Security Agreement

☐

Change of Name

☐

Other

Execution Date: July 18, 2000

2. Name and address of receiving party(ies):

Name: CLARIFY, INC.

Internal Address:

Street Address: 2560 Orchard Parkway

City, State and Zip: San Jose, California 95131

Additional Name(s) & address(es) attached?

☐ Yes

☒ No

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4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is

A. Patent Application No.(s)  
09/550,451

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Ronald L. Yin

Internal Address: Limbach & Limbach L.L.P.  
Street Address: 2001 Ferry Building  
City, State, ZIP: San Francisco, California 94111  
Telephone: (415) 433-4150  
Facsimile: (415) 433-8716

Attorney Docket No. CRFY-110 []

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):.....\$ 40.00

☒

Enclosed

☒ Charge any deficiencies in the enclosed fee to  
Deposit Account No. 12-1420

☐

Authorized to be charged to deposit account

8. Deposit account number: 12-1420

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Ronald L. Yin, Reg. No. 27,607  
Name of Person Signing

Signature

21 July '00  
Date

Total number of pages including cover sheet, attachments and document: 2

Do not detach this portion

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20213, and to the Office of Management and Budget, Paperwork Reduction Project, (0651-0011), Washington, D.C. 20503

08/16/2000 J7ALLAW2 00000024 09550451

01-FC:561

40.00 00

ASSIGNMENT

WHEREAS, I, Dan Davison, hereinafter referred to as "ASSIGNOR", have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: Complex Database Structure

Application (Declaration/Oath) Execution Date: \_\_\_\_\_

Filing Date: April 17, 2000 Application No.: 09/550,451

WHEREAS, CLARIFY, INC., a corporation of the State of California, 2560 Orchard Parkway, San Jose, California 95131 hereinafter referred to as "ASSIGNEE", is desirous of acquiring the entire right, title and interest in the said invention and application and in any Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for One Dollar (\$1.00) and other good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto the said Assignee, and Assignee's successors and assigns, all right, title and interest in and to the said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, prolongations or extensions thereof, said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignor had this assignment and transfer not been made, to the full end and term of any such Letters Patent.

Assignor further agrees that he/she will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignor has hereunto signed his/her name to this assignment on the date indicated below.

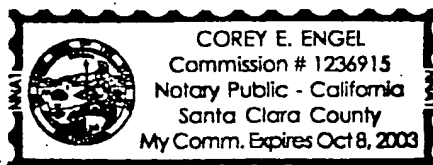
Date: 07/18/2000

Daniel Davison

Dan Davison

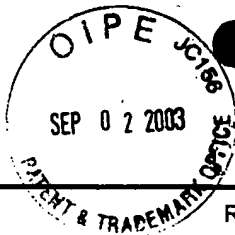
State of California  
County of Santa Clara

On 18 July, 2000 before me, Corey E. Engel, Notary Public  
personally appeared Daniel Davison personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Corey E. Engel  
Signature of Notary



Form PTO-1595  
(Rev. 10/02)

OMB No. 0651-0027 (exp. 6/30/2005)

Tab settings ⇌ ⇌ ⇌ ▼ ▼ ▼ ▼ ▼ ▼ ▼

RECORDATION FORM COVER SHEET  
**PATENTS ONLY**

U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Nortel Networks, Inc.

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: June 23, 2003

2. Name and address of receiving party(ies)

Name: Amdocs Software Systems Limited

Internal Address: \_\_\_\_\_

SEP 03 2003

Technology Center 2100

Street Address: Regus House, Harcourt Centre

Harcourt Road, Dublin 2, Ireland

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s) 09/550,451

B. Patent No.(s) \_\_\_\_\_

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: David L. McCombs

Internal Address: Haynes and Boone, LLP

Street Address: 901 Main Street, Suite 3100

City: Dallas State: TX Zip: 75202

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

- ☒ Enclosed  
☐ Authorized to be charged to deposit account

8. Deposit account number:

08-1394

DO NOT USE THIS SPACE

9. Signature.

David L. McCombs, #32,271

Name of Person Signing

Signature

11 JULY 2003

Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to:  
Mail Stop Assignment, Commissioner of Patent, P.O. Box 1450  
Alexandria, VA 22313-1450

## PATENT ASSIGNMENT OF RIGHTS

THIS PATENT ASSIGNMENT, effective November 28, 2001, from Nortel Networks Inc., a United States corporation and successor-in-interest to Clarify, Inc. by merger, with its executive offices at 4008 East Chapel Hill-Nelson Highway, Research Triangle Park, North Carolina 27709 (hereinafter referred to as the "Assignor"), to Amdocs Software Systems Limited, an Irish corporation, having a place of business at Regus House, Harcourt Centre, Harcourt Road, Dublin 2, Ireland, (hereinafter referred to as the "Assignee").

WHEREAS, Assignor is the sole owner of, and desires to assign to Assignee all of the Assignor's right, title and interest in and to the patent application set out in Schedule A hereto, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries (hereinafter referred to as the "Patents").

NOW, THEREFORE, in consideration of the sum of ONE DOLLAR (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor does hereby sell, assign, set over and transfer to Assignee the entire right, title and interest in and to the said Patents and any and all continuations (including continued prosecution applications and requests for continued examination), divisions, continuations in part, issues, extensions, and renewals of or substitutes for said Patents, and in, to and under any and all Letters Patent which may be granted on or as a result thereof, and any re-issue or re-examination of said Letters Patent, and in and to any and all priority rights, convention rights and other benefits accruing or to accrue with respect to the filing of applications for patents or the issuance of patents in all countries; the same to be held and enjoyed by the Assignee, its successors, assigns, nominees or legal representative, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by the Assignor had this assignment, sale and transfer not been made.

And the Assignor hereby authorizes and requests the Commissioner of Patents of United States of America and any official of any country or countries foreign to United States of America whose duty it is to issue patents on applications as aforesaid, to issue to the Assignee, any and all Letters Patent for said Patents, which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this Assignment.

IN WITNESS WHEREOF, the Assignor has caused this Agreement to be executed by its duly authorized officers on this 23 day of June, 2003.

Witness

NORTEL NETWORKS INC.

By:

Name:

Title:

Art Fisher

Vice President

Intellectual Property Law

SCHEDULE "A"

SERIAL NO.	TITLE	COUNTRY
09/550,451	COMPLEX DATABASE STRUCTURE	US





State of Delaware

PAGE 1

Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"CLARIFY INC.", A DELAWARE CORPORATION,  
WITH AND INTO "NORTEL NETWORKS INC." UNDER THE NAME OF  
"NORTEL NETWORKS INC.", A CORPORATION ORGANIZED AND EXISTING  
UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED  
IN THIS OFFICE THE TWENTY-SIXTH DAY OF DECEMBER, A.D. 2000, AT  
3:32 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF  
THE AFORESAID CERTIFICATE OF MERGER IS THE THIRTY-FIRST DAY OF  
DECEMBER, A.D. 2000, AT 11:59 O'CLOCK P.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE  
NEW CASTLE COUNTY RECORDER OF DEEDS.



Edward J. Freel, Secretary of State

AUTHENTICATION: 0883244

0775112 8100M

001645805

DATE: 12-28-00

**CERTIFICATE OF OWNERSHIP and MERGER (DELAWARE)**

merging

**CLARIFY INC.**

into

**NORTEL NETWORKS INC.**

Nortel Networks Inc., a corporation organized and existing under the laws of Delaware ("Corporation"), does hereby certify that:

**FIRST:** As of the Effective Time, the Corporation owns all of the outstanding shares of stock of Clarify Inc., a corporation organized and existing under the laws of Delaware ("Clarify");

**SECOND:** The laws of Delaware permit a corporation organized and existing under the laws of Delaware to merge with another corporation organized and existing under the laws of Delaware;

**THIRD:** The Corporation, under its Certificate of Incorporation, shall be the surviving corporation of the merger;

**FOURTH:** The Corporation, by the following resolutions of its Board of Directors, duly adopted by unanimous written consent executed as of the 13<sup>th</sup> day of December, 2000 and filed with the minutes of the Board of Directors, determined to merge Clarify into itself, effective as of the date set forth in such resolutions:

**RESOLVED**, That each of the following corporations is a wholly owned subsidiary of the Corporation (a "Subsidiary"):

<u>Name of Corporation</u>	<u>State of Incorporation</u>
Shasta Networks, Inc.	Delaware
Periphonics Corporation	Delaware
Qtera Corporation	Delaware
Nortel Networks Broadband Access Inc.	Delaware
Clarify Inc.	Delaware
Dimension Enterprises, Inc.	Virginia
Nortel Networks NA Inc.	Delaware

and the merger of each of Shasta Networks, Inc. (formerly known as IMX Systems, Inc.), Periphonics Corporation, Qtera Corporation (formerly known as NextNet Technologies Corporation), Nortel Networks Broadband Access Inc. (formerly known as Promatory Communications, Inc.), Clarify Inc., Dimension Enterprises, Inc. and Nortel Networks NA Inc. (formerly known as Bay Networks, Inc.) with and into the Corporation, in accordance with the requirements of Section 253 of the General Corporation Law of Delaware, is hereby approved, and upon the Effective Time (as hereinafter defined) of such mergers as specified herein, the separate existence of each Subsidiary shall cease and all of its issued and outstanding stock shall be cancelled; and the Corporation, under its Certificate of Incorporation and Bylaws and with its officers and directors, shall continue as the surviving corporation, and shall succeed

to all the properties, rights and other assets of each Subsidiary, and shall assume and be subject to all of the liabilities of each Subsidiary, without further action by either corporation;

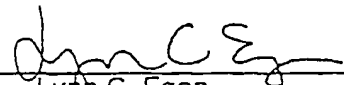
**FURTHER RESOLVED**, That each of the officers of the Corporation is hereby authorized in the name and on behalf of the Corporation to execute, certify, deliver, publish and file or record a plan of merger, articles of merger, a certificate of ownership and merger, and/or any other documents, notices or instruments, to pay all expenses and to cause to be taken any and all such other actions that in the judgment of any such officer may be necessary or proper to accomplish the merger of each Subsidiary with and into the Corporation;

**FURTHER RESOLVED**, That the Effective Time shall be at 11:59 p.m. Eastern Time on December 31, 2000, or such later time as shall be designated by the Secretary or Assistant Secretary of the Corporation ("Effective Time"); and

**FURTHER RESOLVED**, That each of the officers of the Corporation, acting singly, is authorized hereby to take all actions and to execute, or cause to be executed, by one or more employees of the Corporation to whom the President of the Corporation has delegated appropriate signing authority, or one or more employees of the Corporation or Nortel Networks Corporation ("NNC") and/or any corporation, partnership or other entity with respect to which NNC has a direct or indirect ownership interest ("NNC Affiliate") to whom an officer of the Corporation has granted an appropriate power of attorney, all such agreements, instruments and/or documents, and to take all other actions as such officer may consider necessary or desirable in order to effect the foregoing resolutions, that the taking of any such action or the execution of any agreement, instrument or document by any of the persons described in the foregoing resolutions shall conclusively evidence the making of any determinations and the granting of any approvals required under such resolutions; and that all actions taken or caused to be taken by any officer of the Corporation, NNC or a NNC Affiliate prior to the date hereof in order to effect the matters described in the foregoing resolutions are hereby ratified and approved.

IN WITNESS WHEREOF, the Corporation has caused this Certificate to be signed by Lynn C. Egan, its Assistant Secretary, this 18<sup>th</sup> day of December, 2000.

NORTEL NETWORKS INC.

By   
Lynn C. Egan  
Assistant Secretary